


[ABOUT DELPHION](#)
[PRODUCTS](#)
[NEWS & EVENTS](#)
[MY ACCOUNT](#)
[IP SEARCH](#)
[HELP](#)
[Log Out](#)
[Order Form](#)
[Work Files](#)
[View Cart](#)
[Browse Codes](#)
[IP Listings](#)
[Prior Art](#)
[Derwent](#)
[Advanced](#)
[Boolean](#)
[Quick/Number](#)

The Delphion
Integrated
View

Other Views:
INPADOC

Title: **JP2001060465A2: BATTERY**

Country: **JP Japan**

Kind: **A2 Document Laid open to Public inspection**

Inventor(s): **IWATA MIKIO**

Applicant/Assignee:

JAPAN STORAGE BATTERY CO LTD



[News, Profiles, Stocks and More about this company](#)

Issued/Filed Dates:

March 6, 2001 / Aug. 23, 1999

Application Number:

JP1999000234976

IPC Class:

H01M 10/50;

Priority Number(s):

Aug. 23, 1999 JP1999000234976

Abstract:

Problem to be solved: To efficiently inhibit the heat generation by drawing out a terminal connected to an electrode of a generating element to the external through a cooling part in a case, and directly cooling the terminal by sending a coolant to the cooling part.

Solution: In a lithium ion secondary battery 1, a positive electrode collector 4 is connected and fixed to a positive electrode terminal 6 formed by an aluminum rod member, and a negative electrode collector 5 is connected and fixed to a negative electrode terminal 7 formed by a copper rod member, respectively by caulking or the like. A battery case 3 is made of a stainless steel material, and consists of a case body 3a and a case lid 3b, and the case body 3a stores a generating element 2. The circumference of a partitioning plate 8 made of a stainless steel material, is sealed and fixed to an upper end of the case body 3a, and forms a space as a cooling part between the case body 3a and the case lid 3b. The positive electrode terminal 6 and the negative electrode terminal 7 are drawn out to the external through the cooling part. A coolant such as the insulating oil or liquid paraffin is circulated through an inlet 3c and an outlet 3d from an external cooling device.

COPYRIGHT: (C)2001,JPO

Family:

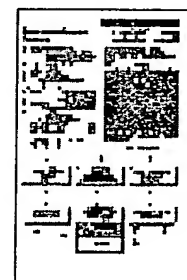
[Show known family members](#)

Other Abstract Info:

DERABS G2001-277816 DERABS G2001-277816

Foreign References:

No patents reference this one

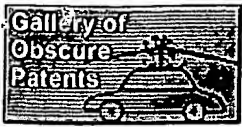


[View Image](#)

1 page



BEST AVAILABLE COPY



Nominate this
for the Gallery...

[Subscribe](#) | [Privacy Policy](#) | [Terms & Conditions](#) | [FAQ](#) | [Site Map](#) | [Help](#) | [Contact Us](#)

© 1997 - 2002 Delphion Inc.

BEST AVAILABLE COPY



(19)

(11) Publication number: **2001060465 A**

Generated Document.

PATENT ABSTRACTS OF JAPAN(21) Application number: **11234976**(51) Intl. Cl.: **H01M 10/50**(22) Application date: **23.08.99**

(30) Priority:	(71) Applicant: JAPAN STORAGE BATTERY CO LTD
(43) Date of application publication: 06.03.01	(72) Inventor: IWATA MIKIO
(84) Designated contracting states:	(74) Representative:

(54) BATTERY**(57) Abstract:**

PROBLEM TO BE SOLVED: To efficiently inhibit the heat generation by drawing out a terminal connected to an electrode of a generating element to the external through a cooling part in a case, and directly cooling the terminal by sending a coolant to the cooling part.

SOLUTION: In a lithium ion secondary battery 1, a positive electrode collector 4 is connected and fixed to a positive electrode terminal 6 formed by an aluminum rod member, and a negative electrode collector 5 is connected and fixed to a negative electrode terminal 7 formed by a copper rod member, respectively by caulking or the like. A battery case 3 is made of a stainless steel material, and consists of a case body 3a and a case lid 3b, and the case body 3a stores a generating element 2. The circumference of a partitioning plate 8 made of a stainless steel material, is sealed and fixed to an upper end of the case body 3a, and forms a space as a cooling part between the case body 3a and the case lid 3b. The

positive electrode terminal 6 and the negative electrode terminal 7 are drawn out to the external through the cooling part. A coolant such as the insulating oil or liquid paraffin is circulated through an inlet 3c and an outlet 3d from an external cooling device.

COPYRIGHT: (C)2001,JPO

